

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P191427

Luminaire Tested: **GAN-AF-09-LED-U-T2R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2R-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62211.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

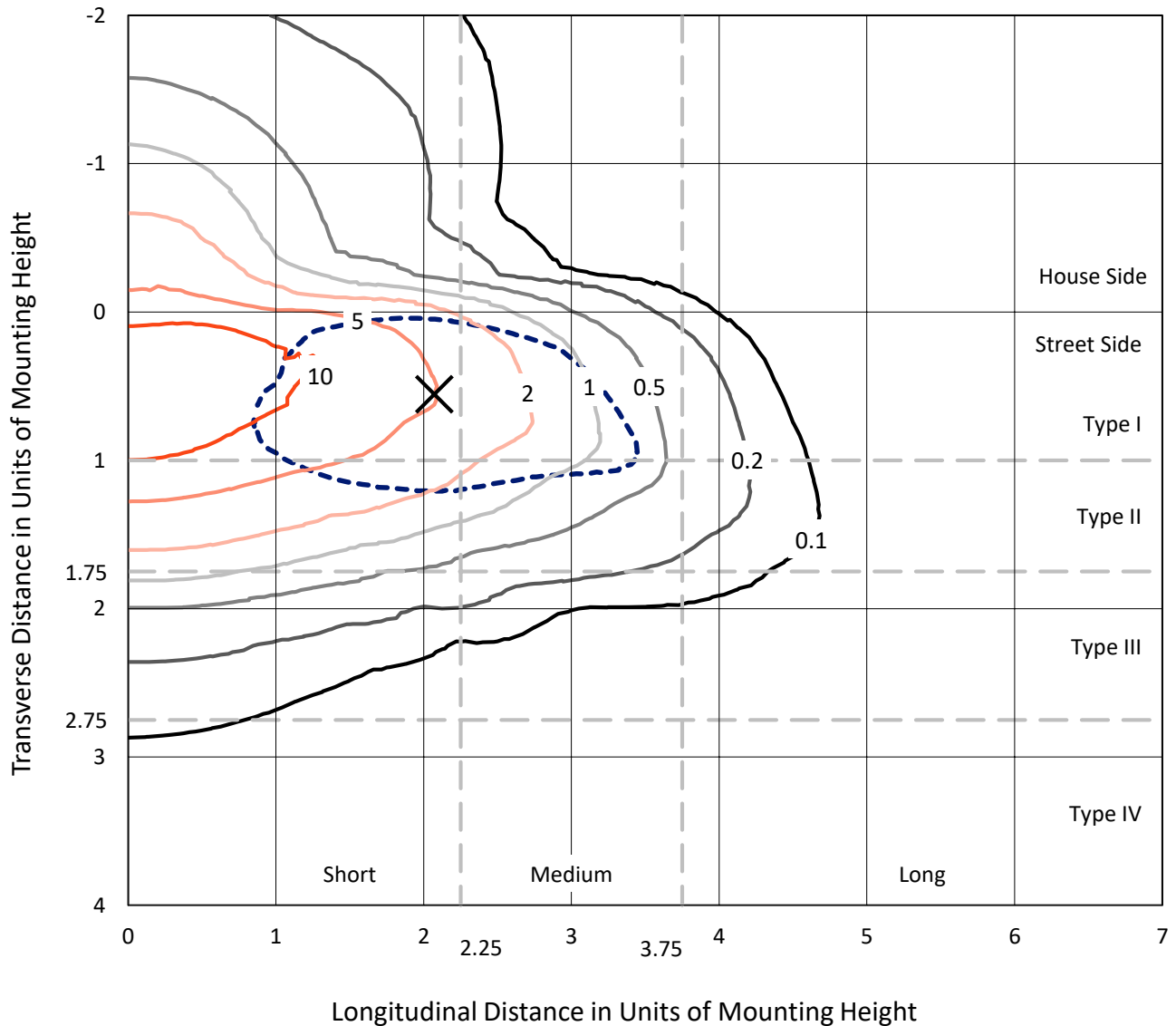
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

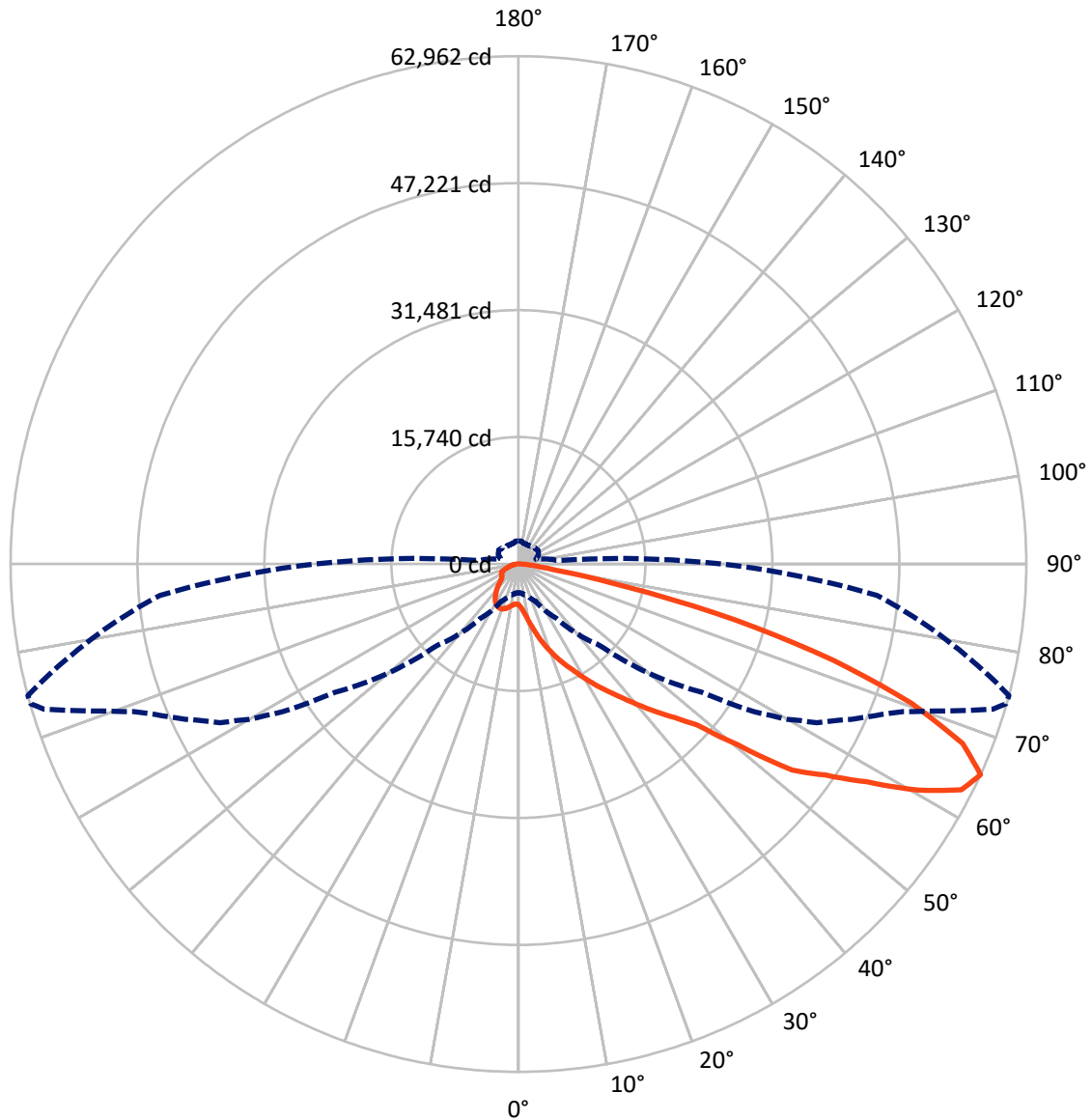
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9591.6 | 0.0 | 9591.6 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 52620.2 | 0.0 | 52620.2 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 62211.8 | 0.0 | 62211.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 624.9 | 1.0 |
| 10°-20° | 2441.7 | 3.9 |
| 20°-30° | 5009.6 | 8.1 |
| 30°-40° | 8428.4 | 13.5 |
| 40°-50° | 11645.7 | 18.7 |
| 50°-60° | 14537.4 | 23.4 |
| 60°-70° | 13082.1 | 21.0 |
| 70°-80° | 5483.9 | 8.8 |
| 80°-90° | 958.0 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 62211.8 | 100.0 |
| 0°-180° | 62211.8 | 100.0 |

Coefficient of Utilization



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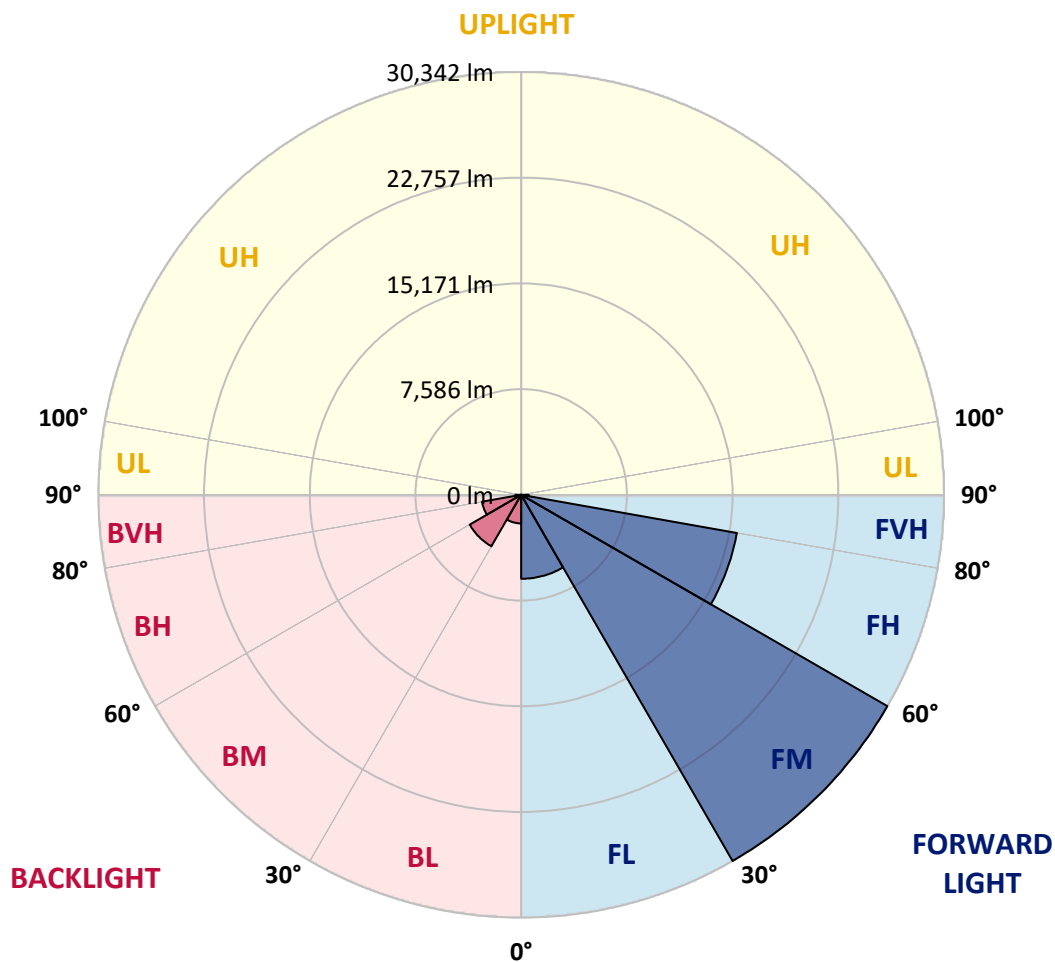
CATALOG NUMBER: GAN-AF-09-LED-U-T2R-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 6025.0 | 9.7 | | | |
| FM | (30°-60°) | 30342.2 | 48.8 | | | |
| FH | (60°-80°) | 15714.5 | 25.3 | | | G5 |
| FVH | (80°-90°) | 538.5 | 0.9 | | | G4/750 |
| BL | (0°-30°) | 2051.3 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 4269.3 | 6.9 | B3/5000 | | |
| BH | (60°-80°) | 2851.5 | 4.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 419.6 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 |
| 2.5° | 6419.2 | 6348.5 | 6366.2 | 6248.5 | 6104.2 | 5915.7 | 5706.6 | 5703.7 | 5706.6 | 5686.1 | 5609.5 |
| 5° | 8901.5 | 8816.2 | 8783.8 | 8518.7 | 8130.1 | 7576.5 | 6975.8 | 6911.0 | 6884.5 | 6816.7 | 6660.7 |
| 7.5° | 10712.4 | 10665.4 | 10615.4 | 10415.1 | 10061.7 | 9443.4 | 8636.6 | 8498.2 | 8365.6 | 8333.3 | 8156.6 |
| 10° | 11881.5 | 11869.7 | 11763.7 | 11710.7 | 11489.9 | 10954.0 | 10167.7 | 10035.2 | 9890.9 | 9840.9 | 9655.4 |
| 12.5° | 12806.1 | 12803.2 | 12753.1 | 12767.9 | 12576.5 | 12187.7 | 11510.4 | 11389.7 | 11283.8 | 11130.6 | 10998.2 |
| 15° | 13445.1 | 13448.0 | 13521.7 | 13604.1 | 13574.7 | 13312.6 | 12676.5 | 12623.5 | 12532.3 | 12426.3 | 12270.2 |
| 17.5° | 13969.2 | 13983.9 | 14060.6 | 14210.7 | 14372.7 | 14352.0 | 13848.5 | 13804.3 | 13724.8 | 13580.6 | 13498.1 |
| 20° | 15153.0 | 15208.9 | 15061.7 | 15061.7 | 15079.3 | 15158.9 | 14917.4 | 14882.1 | 14770.2 | 14693.6 | 14628.8 |
| 22.5° | 17152.3 | 17217.2 | 16884.4 | 16545.7 | 16213.1 | 15971.5 | 15730.1 | 15774.3 | 15697.7 | 15644.7 | 15606.4 |
| 25° | 19749.5 | 19799.5 | 19260.7 | 18689.4 | 18012.2 | 17128.8 | 16531.1 | 16504.5 | 16463.4 | 16430.9 | 16413.2 |
| 27.5° | 22193.5 | 22214.2 | 21704.8 | 20868.5 | 20082.3 | 18813.1 | 17343.7 | 17311.4 | 17261.3 | 17199.5 | 17146.5 |
| 30° | 24284.2 | 24278.3 | 23754.1 | 22956.1 | 22114.0 | 20709.4 | 18577.5 | 18477.5 | 18330.2 | 18162.4 | 18032.8 |
| 32.5° | 26095.2 | 26086.3 | 25512.1 | 24684.7 | 23801.3 | 22588.1 | 20267.7 | 20061.6 | 19831.9 | 19505.1 | 19307.8 |
| 35° | 27520.3 | 27514.4 | 26972.7 | 26109.9 | 25096.9 | 24357.8 | 22205.3 | 21952.1 | 21660.6 | 21221.8 | 20918.5 |
| 37.5° | 28059.2 | 28059.2 | 27755.9 | 27167.0 | 26271.8 | 25765.4 | 24357.8 | 24051.6 | 23739.4 | 23241.9 | 22900.3 |
| 40° | 27744.2 | 27750.0 | 27814.7 | 27705.8 | 27270.0 | 26881.3 | 26366.0 | 26183.4 | 25915.5 | 25467.9 | 25111.6 |
| 42.5° | 26687.0 | 26719.4 | 27149.3 | 27676.4 | 27894.3 | 27832.4 | 28147.5 | 28065.1 | 27876.6 | 27532.1 | 27249.5 |
| 45° | 25347.2 | 25447.3 | 25918.5 | 26913.7 | 28068.0 | 28654.0 | 29640.4 | 29649.3 | 29613.9 | 29428.5 | 29210.6 |
| 47.5° | 23506.8 | 23648.2 | 24269.5 | 25615.2 | 27661.7 | 29452.0 | 31156.9 | 31236.4 | 31310.1 | 31189.4 | 31089.2 |
| 50° | 21062.8 | 21230.6 | 22161.1 | 23945.5 | 26834.3 | 30279.4 | 34022.0 | 34381.3 | 34717.0 | 34675.8 | 34743.5 |
| 52.5° | 18445.0 | 18642.4 | 19781.9 | 21769.5 | 25412.0 | 30470.8 | 35853.6 | 36439.6 | 37025.5 | 37505.5 | 38014.9 |
| 55° | 16083.4 | 15977.5 | 17117.0 | 19210.6 | 23074.0 | 29608.1 | 37499.6 | 38206.3 | 38860.1 | 39449.0 | 40055.6 |
| 57.5° | 12882.6 | 13056.4 | 14198.9 | 16269.0 | 19979.2 | 27172.8 | 38633.3 | 39666.9 | 40606.1 | 41580.8 | 42440.7 |
| 60° | 9416.9 | 9590.6 | 10830.3 | 12932.8 | 16619.4 | 23480.3 | 37767.5 | 39334.1 | 40838.9 | 42331.8 | 43497.8 |
| 62.5° | 5686.1 | 5815.6 | 6908.1 | 8910.4 | 12814.9 | 19101.7 | 33910.1 | 35965.5 | 38179.8 | 39964.2 | 41751.6 |
| 65° | 3539.4 | 3613.1 | 4016.4 | 5117.7 | 8230.2 | 14260.8 | 27705.8 | 29946.7 | 32331.8 | 34596.2 | 36454.3 |
| 67.5° | 2897.5 | 2924.0 | 2997.7 | 3233.1 | 4520.0 | 9299.0 | 20621.2 | 22605.8 | 24758.3 | 26949.1 | 29016.2 |
| 70° | 2606.0 | 2588.3 | 2588.3 | 2603.0 | 2897.5 | 5000.0 | 13501.0 | 14793.7 | 16586.9 | 18492.2 | 20382.6 |
| 72.5° | 2352.8 | 2335.1 | 2302.7 | 2258.5 | 2364.6 | 3050.6 | 6978.8 | 7953.4 | 9246.0 | 10939.2 | 12750.2 |
| 75° | 2114.2 | 2090.7 | 2052.3 | 1996.5 | 2070.0 | 2302.7 | 3351.0 | 3760.3 | 4390.4 | 5291.4 | 6301.5 |
| 77.5° | 1866.9 | 1837.4 | 1802.1 | 1760.9 | 1855.1 | 1790.4 | 1964.1 | 2111.3 | 2352.8 | 2641.4 | 3021.2 |
| 80° | 1587.1 | 1560.6 | 1548.8 | 1528.3 | 1640.2 | 1363.4 | 1386.9 | 1478.2 | 1619.5 | 1775.6 | 1952.3 |
| 82.5° | 1242.6 | 1242.6 | 1289.7 | 1298.5 | 1422.2 | 980.6 | 1036.5 | 1116.0 | 1189.6 | 1272.0 | 1354.5 |
| 85° | 818.6 | 824.5 | 983.5 | 1045.4 | 1121.9 | 659.6 | 777.3 | 803.8 | 862.8 | 909.9 | 945.2 |
| 87.5° | 256.1 | 276.8 | 600.7 | 665.5 | 644.9 | 374.0 | 477.0 | 488.8 | 530.0 | 562.4 | 591.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAN-AF-09-LED-U-T2R-1200

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 |
| 2.5° | 5609.5 | 5574.2 | 5541.7 | 5538.8 | 5515.2 | 5482.9 | 5494.7 | 5444.6 | 5447.5 | 5421.0 | 5391.6 |
| 5° | 6595.9 | 6572.4 | 6454.6 | 6422.2 | 6333.9 | 6278.0 | 6269.1 | 6151.3 | 6136.6 | 6068.9 | 5995.2 |
| 7.5° | 8015.2 | 7938.7 | 7773.8 | 7694.2 | 7544.1 | 7432.1 | 7379.2 | 7223.2 | 7146.5 | 6969.9 | 6890.4 |
| 10° | 9502.3 | 9405.1 | 9202.0 | 9090.0 | 8945.7 | 8766.1 | 8668.9 | 8442.2 | 8353.8 | 8191.9 | 7997.5 |
| 12.5° | 10880.3 | 10783.1 | 10574.1 | 10488.7 | 10297.3 | 10105.9 | 9999.9 | 9743.7 | 9628.8 | 9369.7 | 9216.6 |
| 15° | 12155.3 | 12058.1 | 11875.6 | 11787.3 | 11595.9 | 11439.9 | 11298.5 | 11045.2 | 10909.8 | 10668.4 | 10468.1 |
| 17.5° | 13392.1 | 13289.1 | 13130.0 | 13050.5 | 12865.0 | 12706.0 | 12552.8 | 12314.4 | 12176.0 | 11934.5 | 11754.9 |
| 20° | 14540.5 | 14463.9 | 14349.1 | 14243.1 | 14057.6 | 13913.3 | 13730.8 | 13524.6 | 13324.3 | 13147.7 | 12976.9 |
| 22.5° | 15541.7 | 15512.2 | 15388.6 | 15341.4 | 15182.4 | 15058.8 | 14899.7 | 14696.5 | 14552.3 | 14328.5 | 14169.5 |
| 25° | 16404.4 | 16395.5 | 16336.7 | 16322.0 | 16210.1 | 16092.3 | 16057.0 | 15889.1 | 15756.6 | 15559.3 | 15394.4 |
| 27.5° | 17146.5 | 17155.3 | 17140.6 | 17181.8 | 17152.3 | 17099.3 | 17102.3 | 17046.4 | 16969.8 | 16804.9 | 16660.6 |
| 30° | 17971.0 | 17923.8 | 17950.3 | 18009.3 | 18027.0 | 18032.8 | 18130.0 | 18162.4 | 18156.5 | 18047.5 | 17976.8 |
| 32.5° | 19137.1 | 19025.1 | 18922.0 | 18913.2 | 18972.2 | 18995.7 | 19160.6 | 19246.0 | 19319.6 | 19346.0 | 19357.9 |
| 35° | 20624.0 | 20400.3 | 20185.3 | 20070.5 | 19970.4 | 19996.8 | 20114.6 | 20253.0 | 20415.0 | 20526.8 | 20659.4 |
| 37.5° | 22496.8 | 22223.0 | 21843.2 | 21572.2 | 21504.5 | 21357.3 | 21433.8 | 21542.7 | 21701.8 | 21875.5 | 22105.1 |
| 40° | 24767.1 | 24352.0 | 23925.0 | 23565.7 | 23371.4 | 23100.5 | 23097.5 | 23077.0 | 23174.1 | 23336.1 | 23659.9 |
| 42.5° | 26952.0 | 26583.9 | 26130.5 | 25753.6 | 25500.3 | 25138.1 | 25064.5 | 24873.2 | 24917.3 | 25058.6 | 25373.7 |
| 45° | 28998.5 | 28695.2 | 28418.4 | 27982.6 | 27767.7 | 27376.0 | 27252.3 | 27025.6 | 26899.0 | 26963.8 | 27278.8 |
| 47.5° | 30980.3 | 30785.9 | 30497.3 | 30214.7 | 30049.8 | 29699.3 | 29540.4 | 29378.4 | 29216.4 | 29210.6 | 29540.4 |
| 50° | 34843.5 | 34740.5 | 34399.0 | 34104.5 | 34183.9 | 33754.1 | 33780.6 | 33344.8 | 33542.0 | 33565.6 | 34257.6 |
| 52.5° | 38474.3 | 38833.6 | 39086.7 | 39396.0 | 39596.2 | 39634.4 | 39767.0 | 39964.2 | 40202.8 | 40674.0 | 41315.9 |
| 55° | 40553.1 | 41003.8 | 41265.7 | 41501.3 | 41890.0 | 41972.5 | 42193.3 | 42455.4 | 42664.5 | 43194.5 | 43739.2 |
| 57.5° | 43023.7 | 43859.9 | 44266.4 | 44640.3 | 45164.4 | 45364.7 | 45732.8 | 46018.4 | 46289.2 | 46916.5 | 47576.1 |
| 60° | 44546.0 | 45564.9 | 46392.4 | 46984.2 | 47640.9 | 48112.0 | 48668.5 | 49116.1 | 49752.1 | 50503.0 | 51486.5 |
| 62.5° | 43335.9 | 44831.7 | 45930.1 | 46946.0 | 47838.2 | 48739.2 | 49537.2 | 50373.5 | 51339.2 | 52475.9 | 54001.3 |
| 65° | 38515.5 | 40037.9 | 41919.5 | 42973.7 | 44154.4 | 45544.3 | 46757.4 | 48112.0 | 49428.3 | 51083.1 | 53338.7 |
| 67.5° | 31006.8 | 32776.5 | 34890.7 | 35953.7 | 37311.2 | 38862.9 | 40223.3 | 41878.3 | 43415.4 | 45420.7 | 48209.2 |
| 70° | 22349.6 | 24637.6 | 26416.1 | 27526.2 | 29110.4 | 30709.4 | 32022.7 | 33948.5 | 35220.5 | 37275.8 | 40158.6 |
| 72.5° | 14151.8 | 15956.8 | 18135.9 | 19534.6 | 20942.1 | 22561.6 | 23904.3 | 25565.1 | 26751.8 | 28624.5 | 31236.4 |
| 75° | 7608.9 | 8939.9 | 10853.8 | 12181.8 | 13689.5 | 15073.5 | 16645.9 | 17758.9 | 18636.4 | 20117.6 | 22237.7 |
| 77.5° | 3565.9 | 4375.7 | 5344.5 | 6366.2 | 7388.1 | 8454.0 | 9490.5 | 10391.5 | 10768.4 | 11616.5 | 12867.9 |
| 80° | 2164.3 | 2426.3 | 2709.1 | 3024.1 | 3451.1 | 3795.6 | 4252.0 | 4581.8 | 4605.3 | 4873.3 | 5256.1 |
| 82.5° | 1445.8 | 1543.0 | 1628.3 | 1707.9 | 1816.9 | 1902.2 | 1999.4 | 2114.2 | 2161.4 | 2223.2 | 2346.9 |
| 85° | 986.4 | 1033.6 | 1051.2 | 1101.3 | 1089.5 | 1118.9 | 1157.3 | 1195.5 | 1216.1 | 1213.2 | 1269.2 |
| 87.5° | 606.6 | 630.1 | 641.9 | 653.7 | 644.9 | 633.1 | 650.8 | 671.4 | 677.3 | 659.6 | 665.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 |
| 2.5° | 5397.5 | 5371.0 | 5344.5 | 5326.8 | 5320.9 | 5164.9 | 5097.2 | 5053.0 | 4958.8 | 4882.1 | 4820.3 |
| 5° | 5954.0 | 5898.0 | 5853.8 | 5800.8 | 5771.4 | 5376.8 | 5232.6 | 5132.5 | 4967.6 | 4870.4 | 4782.1 |
| 7.5° | 6849.2 | 6693.1 | 6601.8 | 6498.8 | 6410.4 | 5697.8 | 5459.3 | 5303.3 | 5073.5 | 4944.0 | 4843.9 |
| 10° | 7865.1 | 7703.1 | 7558.8 | 7399.8 | 7261.4 | 6124.8 | 5777.3 | 5535.9 | 5232.6 | 5064.7 | 4932.3 |
| 12.5° | 8998.7 | 8839.7 | 8657.1 | 8454.0 | 8277.3 | 6666.6 | 6183.6 | 5839.2 | 5424.0 | 5200.2 | 5014.7 |
| 15° | 10338.6 | 10058.8 | 9837.9 | 9602.3 | 9396.2 | 7314.4 | 6657.8 | 6180.8 | 5627.2 | 5323.8 | 5076.5 |
| 17.5° | 11584.1 | 11289.6 | 10989.3 | 10783.1 | 10544.7 | 8041.7 | 7134.8 | 6528.2 | 5795.0 | 5403.3 | 5088.3 |
| 20° | 12800.2 | 12479.3 | 12220.2 | 11943.4 | 11693.0 | 8795.5 | 7644.2 | 6834.4 | 5904.0 | 5406.3 | 5014.7 |
| 22.5° | 13872.0 | 13671.8 | 13383.3 | 13082.9 | 12829.6 | 9549.3 | 8121.2 | 7093.6 | 5945.2 | 5338.6 | 4885.1 |
| 25° | 15091.1 | 14879.1 | 14525.8 | 14272.5 | 13989.9 | 10317.9 | 8589.4 | 7293.8 | 5921.7 | 5211.9 | 4684.9 |
| 27.5° | 16392.7 | 16157.1 | 15794.9 | 15529.9 | 15188.3 | 11115.9 | 9019.4 | 7438.1 | 5833.3 | 5005.8 | 4416.9 |
| 30° | 17750.1 | 17535.1 | 17178.8 | 16910.9 | 16566.4 | 11961.1 | 9499.3 | 7535.3 | 5656.6 | 4720.2 | 4104.8 |
| 32.5° | 19207.7 | 19028.1 | 18674.7 | 18395.0 | 18027.0 | 12876.8 | 9946.9 | 7564.7 | 5388.6 | 4381.6 | 3775.0 |
| 35° | 20591.7 | 20468.0 | 20170.5 | 19908.5 | 19525.7 | 13742.5 | 10421.0 | 7550.0 | 5070.7 | 4010.6 | 3474.7 |
| 37.5° | 22149.3 | 22075.8 | 21928.5 | 21595.8 | 21127.6 | 14917.4 | 10989.3 | 7488.1 | 4681.9 | 3642.5 | 3245.0 |
| 40° | 23810.1 | 23816.0 | 23657.0 | 23430.3 | 22994.5 | 16342.6 | 11666.5 | 7367.4 | 4257.9 | 3318.6 | 3035.9 |
| 42.5° | 25568.0 | 25659.3 | 25582.8 | 25420.8 | 25002.7 | 17779.6 | 12476.3 | 7220.2 | 3845.7 | 3003.5 | 2829.8 |
| 45° | 27582.1 | 27694.0 | 27811.9 | 27573.3 | 27167.0 | 19675.8 | 13542.2 | 7028.8 | 3401.0 | 2741.4 | 2688.4 |
| 47.5° | 29905.5 | 30082.1 | 30188.2 | 30191.1 | 29784.7 | 22025.7 | 15273.7 | 6913.9 | 3006.5 | 2564.7 | 2620.7 |
| 50° | 34808.3 | 34864.2 | 35114.5 | 35550.3 | 35238.2 | 27464.4 | 18297.8 | 6843.2 | 2738.4 | 2455.8 | 2570.7 |
| 52.5° | 41872.3 | 42487.8 | 42920.7 | 42891.2 | 42467.2 | 30918.4 | 19964.4 | 6478.1 | 2579.5 | 2414.6 | 2547.0 |
| 55° | 44749.3 | 45517.8 | 46318.7 | 46530.8 | 46201.0 | 33866.0 | 21539.9 | 6113.1 | 2503.0 | 2444.0 | 2555.9 |
| 57.5° | 48583.1 | 49878.8 | 50977.1 | 51439.4 | 50962.4 | 37638.0 | 23612.9 | 5921.7 | 2479.3 | 2523.5 | 2611.9 |
| 60° | 53061.9 | 54663.7 | 56106.6 | 56937.0 | 56937.0 | 41972.5 | 25762.4 | 5842.1 | 2447.0 | 2641.4 | 2706.1 |
| 62.5° | 55938.7 | 58291.5 | 60470.5 | 61686.7 | 61651.3 | 44990.7 | 26716.4 | 5571.2 | 2373.3 | 2723.8 | 2835.6 |
| 65° | 55950.6 | 58748.0 | 61524.7 | 62891.0 | 62961.7 | 44619.7 | 25141.1 | 4920.5 | 2237.9 | 2735.6 | 2965.2 |
| 67.5° | 51286.3 | 54269.2 | 57505.3 | 59033.6 | 59386.9 | 41074.3 | 21763.6 | 4045.9 | 2017.1 | 2617.7 | 3012.4 |
| 70° | 43315.2 | 46227.5 | 49531.3 | 51033.1 | 51660.2 | 35014.4 | 17529.3 | 3118.4 | 1734.4 | 2358.6 | 2915.2 |
| 72.5° | 34125.1 | 36981.4 | 39281.1 | 40379.4 | 40868.2 | 26763.6 | 12764.9 | 2355.7 | 1422.2 | 1987.6 | 2653.1 |
| 75° | 24160.6 | 26304.3 | 27526.2 | 27770.7 | 27847.2 | 16133.6 | 7756.1 | 1752.0 | 1172.0 | 1545.9 | 2240.9 |
| 77.5° | 13636.4 | 14555.3 | 14455.1 | 14564.1 | 13657.1 | 6227.8 | 3377.5 | 1254.4 | 965.9 | 1174.9 | 1737.3 |
| 80° | 5323.8 | 5488.7 | 5156.0 | 5053.0 | 4634.8 | 2317.4 | 1489.9 | 874.5 | 771.5 | 889.3 | 1216.1 |
| 82.5° | 2346.9 | 2423.4 | 2352.8 | 2370.4 | 2267.4 | 1195.5 | 892.2 | 633.1 | 588.9 | 650.8 | 806.8 |
| 85° | 1292.7 | 1316.2 | 1310.4 | 1348.7 | 1292.7 | 477.0 | 424.0 | 388.7 | 412.2 | 441.7 | 518.2 |
| 87.5° | 630.1 | 636.1 | 615.4 | 647.8 | 627.2 | 241.4 | 209.1 | 220.9 | 241.4 | 247.3 | 247.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 0° | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 | 5055.9 |
| 2.5° | 4776.2 | 4752.6 | 4755.6 | 4749.7 | 4737.9 | 4737.9 |
| 5° | 4734.9 | 4711.4 | 4711.4 | 4705.5 | 4690.7 | 4693.7 |
| 7.5° | 4776.2 | 4737.9 | 4723.2 | 4702.5 | 4681.9 | 4681.9 |
| 10° | 4823.3 | 4755.6 | 4714.4 | 4679.0 | 4652.5 | 4652.5 |
| 12.5° | 4858.6 | 4752.6 | 4684.9 | 4637.8 | 4611.3 | 4611.3 |
| 15° | 4870.4 | 4732.0 | 4637.8 | 4581.8 | 4558.3 | 4555.3 |
| 17.5° | 4832.1 | 4652.5 | 4537.6 | 4472.9 | 4443.4 | 4434.6 |
| 20° | 4714.4 | 4508.2 | 4369.8 | 4296.2 | 4255.0 | 4240.2 |
| 22.5° | 4537.6 | 4302.1 | 4140.1 | 4063.6 | 4010.6 | 4001.7 |
| 25° | 4290.3 | 4037.1 | 3878.0 | 3804.5 | 3775.0 | 3766.2 |
| 27.5° | 4001.7 | 3766.2 | 3630.7 | 3583.6 | 3557.1 | 3554.1 |
| 30° | 3727.8 | 3527.6 | 3427.5 | 3392.2 | 3359.8 | 3353.9 |
| 32.5° | 3471.7 | 3345.0 | 3306.8 | 3256.8 | 3180.1 | 3171.4 |
| 35° | 3289.1 | 3277.3 | 3250.8 | 3138.9 | 3044.7 | 3018.2 |
| 37.5° | 3177.3 | 3286.2 | 3150.7 | 2929.9 | 2862.1 | 2856.3 |
| 40° | 3112.4 | 3194.9 | 2962.3 | 2885.7 | 2891.6 | 2885.7 |
| 42.5° | 2965.2 | 3050.6 | 2968.2 | 2932.8 | 2956.4 | 2962.3 |
| 45° | 2818.0 | 2912.2 | 3012.4 | 2988.8 | 3044.7 | 3044.7 |
| 47.5° | 2735.6 | 2876.8 | 3009.4 | 3009.4 | 3091.9 | 3121.3 |
| 50° | 2641.4 | 2847.5 | 2962.3 | 3003.5 | 3068.2 | 3044.7 |
| 52.5° | 2635.4 | 2797.4 | 2894.5 | 2968.2 | 2997.7 | 2971.2 |
| 55° | 2644.2 | 2756.1 | 2826.8 | 2909.3 | 2944.6 | 2947.5 |
| 57.5° | 2656.0 | 2732.6 | 2779.7 | 2818.0 | 2924.0 | 2924.0 |
| 60° | 2685.5 | 2711.9 | 2738.4 | 2759.1 | 2897.5 | 2900.5 |
| 62.5° | 2732.6 | 2691.4 | 2685.5 | 2706.1 | 2882.8 | 2871.0 |
| 65° | 2806.3 | 2661.9 | 2617.7 | 2638.4 | 2868.0 | 2832.8 |
| 67.5° | 2906.3 | 2617.7 | 2532.3 | 2547.0 | 2856.3 | 2779.7 |
| 70° | 2997.7 | 2547.0 | 2426.3 | 2411.6 | 2744.4 | 2608.9 |
| 72.5° | 3006.5 | 2464.6 | 2279.1 | 2234.9 | 2385.1 | 2255.6 |
| 75° | 2859.2 | 2408.7 | 2117.2 | 1987.6 | 1969.9 | 1952.3 |
| 77.5° | 2576.5 | 2376.3 | 1928.7 | 1725.5 | 1690.2 | 1702.0 |
| 80° | 2155.5 | 2255.6 | 1702.0 | 1460.6 | 1652.0 | 1631.3 |
| 82.5° | 1610.7 | 1990.6 | 1445.8 | 1292.7 | 1289.7 | 1139.6 |
| 85° | 895.2 | 1551.8 | 1177.8 | 968.7 | 674.3 | 653.7 |
| 87.5° | 250.3 | 862.8 | 824.5 | 547.7 | 374.0 | 388.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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